

Opening Session—Morning  
Bldg. 402 Lecture Hall

- 8:30—8:35 Jason Benedict, APSUO Vice Chair  
*Welcome and Launch of the 2016 Meeting*
- 8:35—8:45 Al Sattelberger (*tentative*), Deputy Laboratory Director for Programs  
*Welcome from the Laboratory*
- 8:45—9:10 Ben Brown, Senior Science and Technology Advisor, Office of Science, DOE  
*The DOE Perspective*
- 9:10—9:15 Al Sattelberger (*tentative*), Deputy Laboratory Director for Programs  
*Introduction of Keynote Speaker*
- 9:15—9:55 Keynote Speaker: Narayanan Kasthuri, Argonne National Laboratory  
*Towards Complete and Comprehensive Fine Structural Mapping of Brains*
- 9:55—10:20 Break
- 10:20—10:35 Stephen Streiffer, APS Director  
*APS Update*
- 10:35—10:50 Tijana Rajh, CNM Deputy Division Director  
*CNM Update*
- 10:50—11:10 Dean Haeffner, APS Upgrade  
*APS Upgrade Update*
- 11:10—11:15 Introduction of the Speed Science Slam, Jason Benedict (APSUO) and Steve Smith (CNM UEC)
- 11:15—12:00 S<sup>3</sup>: Speed Science Slam

Yimin Wu (Nanoscience & Technology Division, Argonne National Laboratory)

*Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution*

Eran Greenberg (University of Chicago/CARS)  
*Powder XRD and  $^{57}\text{Fe}$  Mössbauer Spectroscopy in High-pressure Studies*

Daniel Duke (Energy Systems Division, Argonne National Laboratory)  
*X-ray Fluorescence Measurements of Pharmaceutical Sprays*

Yuan Gao (Chemical Sciences & Engineering Division, Argonne National Laboratory)  
*X-ray Diffraction from Single Mesoscopic Particle Manipulated by 3-dimensional Optical Trapping*

Kendra Letchworth-Weaver (Nanoscience & Technology Division, Argonne National Laboratory)  
*Challenges for Theory: Electrode/Electrolyte Interface*

Yi Zhu (X-ray Science Division, Argonne National Laboratory)  
*Ultrafast THz-field-driven Dynamics in Ferroelectrics Revealed by Time-resolved Hard X-ray Microdiffraction*

Kiran Sasikumar (Nanoscience & Technology Division, Argonne National Laboratory)  
*Investigation of Lattice Displacement Dynamics and Nanocatalytic Activity of Gold*

Dongzhou Zhang (University of Hawaii/GSECARS)  
*High Pressure Research at the Partnership for eXtreme Xtallography (PX<sup>2</sup>) Project*

Ross Andrews (X-ray Science Division, Argonne National Laboratory)  
*In Operando Applications of Combined USAXS/SAXS/WAXS Measurements at Pressure or Temperature*

12:00

Lunch